

falls 30" E. of the point determined with the solar on previous date.

At 8h 0m a.m. app. t., I set off 41° 04' N., on lat. arc; 20° 19' 34" N. on decl. arc; and determine a meridian with the solar, which falls 15" E. of the meridian determined by observation on Polaris.

The solar apparatus by p.m. and a.m. observations defines the positions for meridians, respectively about 30" west and 15" E., of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h 15m a.m. app. t., is 18° 15' W.; the angle thus determined gives the mag. decl. 18° 15' E.;

Measurements on the surveys in this township were made with a 5.00 chs. steel Lallie tape, which was frequently compared with a standard 1.00 ch. steel tape.

Slope angles were determined by the use of clinometers, the adjustments of which were made by comparing its readings with those of the transit.

Throughout the survey of the township, the adjustments of the transit, were frequently examined, and tests of the solar apparatus were made at least once a week, by comparing the results of a.m. and p.m. observations with a meridian determined by an observation on Polaris.

May 22, 1922.

Retracement of a portion of East Bdy. of T. 37 N., R. 19 E.

Chains

From the cor. of secs. 12 and 13, on E. Bdy. of Tp. hereinafter described.

N. 2° 57' W., on retracement on E. Bdy. of sec. 12.

40.69 Fall 46 lks. W. of the original $\frac{1}{4}$ cor. of secs. 7 and 12, hereinafter described.

The true course of this $\frac{1}{2}$ mile is therefore N. 2° 18' W., and its length 40.69 chs. dist.