

Resurvey of portion of south boundary T. 30 N., R. 40 E.

latitude arc; $14^{\circ} 13'$ N. on the declination arc; and mark a point in the meridian determined with the solar, by a tack driven in the hub already set 5chs. N. of my station; this mark fall 0.2ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations defines positions for meridians, respectively about $0' 26''$ west and $0' 10''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

Similar tests were made on Transit No. 8572 and the Instrument found to be in good adjustment.

The magnetic bearing of the true meridian, at 8h. 15m. a.m., is $N. 18^{\circ} 00' W.$; the angle thus determined gives the mag. decl. $18^{\circ} 00' E.$

Aug 14; At 2h. p.m. I set off $40^{\circ} 25'$ N. on the latitude arc; $14^{\circ} 26\frac{1}{2}'$ on the declination arc and determine a meridian with the solar at the cor. of secs. 1, 2, 35 & 36 on the south boundary of T. 30 N., R. 40 E., hereinafter described.

Thence I retrace,

East on the south boundary of sec. 36

40.00 Set temp. $\frac{1}{4}$ sec. cor. After diligent search no traces of the old $\frac{1}{4}$ sec. cor. are found. I continue east on same line.

81.25 Intersect N. and S. line 05lks. N. of the cor. of Tps. 29 and 30 N., R's. 40 and 41 E. which is a willow stake 2"- 2- 30ins. marked and witnessed as described by the Surveyor General. I reestablish this cor. at the same point as follows:

Set an iron post 3 ft. long, 3ins. diam., 24ins. in the ground for cor. of Tps. 29 & 30 N. R's. 40 and 41 E. with brass cap mkd.;