

## Test of Instruments.

The magnetic bearing of the true meridian at 8 a.m. is N.19°W.; the angle thus determined gives the magnetic declination 19°00'E.

Measurements on the surveys of this township were made with 5.00 chain steel tapes which were frequently compared with a U.S. Standard 1.00 chain steel tape. Slope angles were determined by means of clinometers, the adjustments of which were made by comparing their readings with those of a transit. Throughout the survey of T43 N., R.36 E., the adjustments of transits No. 9985 and 8494 were frequently examined and the solar apparatus tested at least once each week by comparing the results of a.m. and p.m. observations with the meridian established by observations on Polaris.

Chains.

Dependent Resurvey of the S. bdy. of T. 43 N., R. 36 E.

The cor. of secs. 3, 4, 33 and 34 on the S. bdy. of T. 43 N., R. 36 E. is a wooden stake 2 ins. square, 30 ins. long, set under a N. and S. wire fence and marked

S XXXIV on NE.,

S IIIIXIII N on SE.,

S IV R XXXVI on SW., and

S XXXIIII XLIII on NW. face. This is recognized by the adjoining land owners as being the cor. of secs. 3, 4, 33 and 34.

Thence S. 89°47'W., on a retracement of the line bet. secs. 4 and 33, 5 and 32 and 6 and 31 on the S. bdy. of Tp., making search for the old  $\frac{1}{2}$  sec. and sec. cors. at regular distances, and failing to find any, set temp. cors.

239.15 Fall 55 lks. S. of the cor. of Tps. 42 and 43 N., Rs. 35 and 36 E., as hereinafter described. The true course of the line bet. secs. 4 and 33, 5 and 32 and 6 and 31 is therefore S. 89°55'W.